

U.S. Environmental Protection Agency



June 25, 2010

Surface Oil



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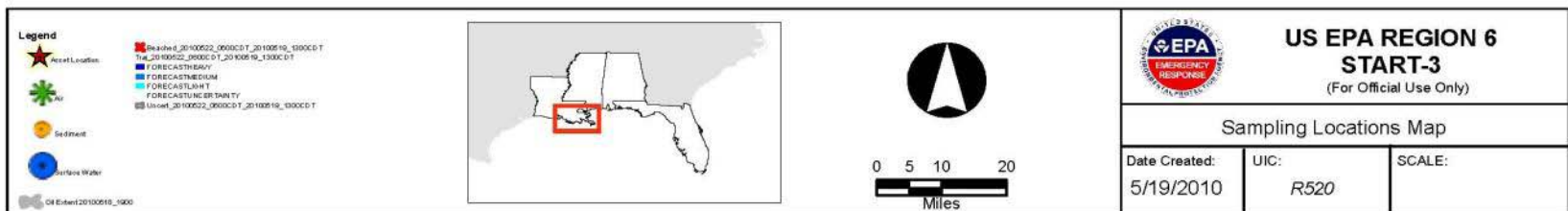
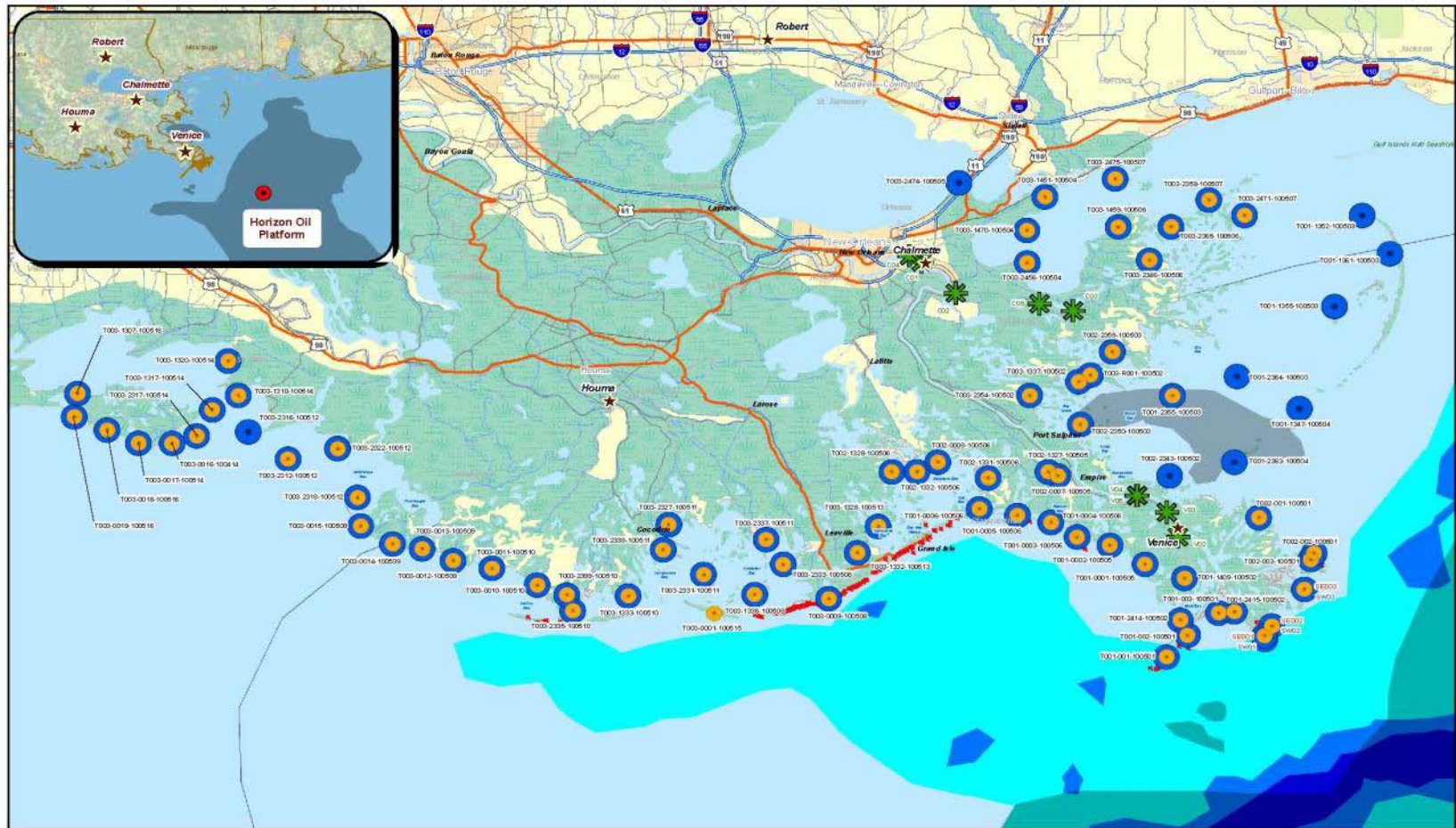


Sampling Activities

- Deep Sea Dispersant Application
- Water and Sediment Sampling
- Miscellaneous Samples
- Air Monitoring



Sampling Map



Deep Sea Dispersant Application

- Under an EPA directive, BP vessels have been monitoring the effects and effectiveness of dispersant application
 - R/V Brooks McCall
 - R/V Ocean Veritas

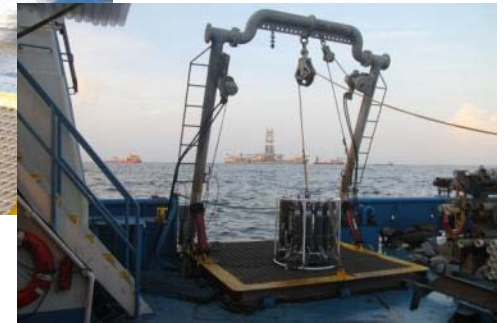


Information from BP Vessels

- Cruise Sampling Tracking Spreadsheet
- CTD Graphs
- LISST Report
- Bulleted Status Report by BP contractor
- Map with Sampling Stations
- GIS Shape Files



Fluorometer & CTD Unit

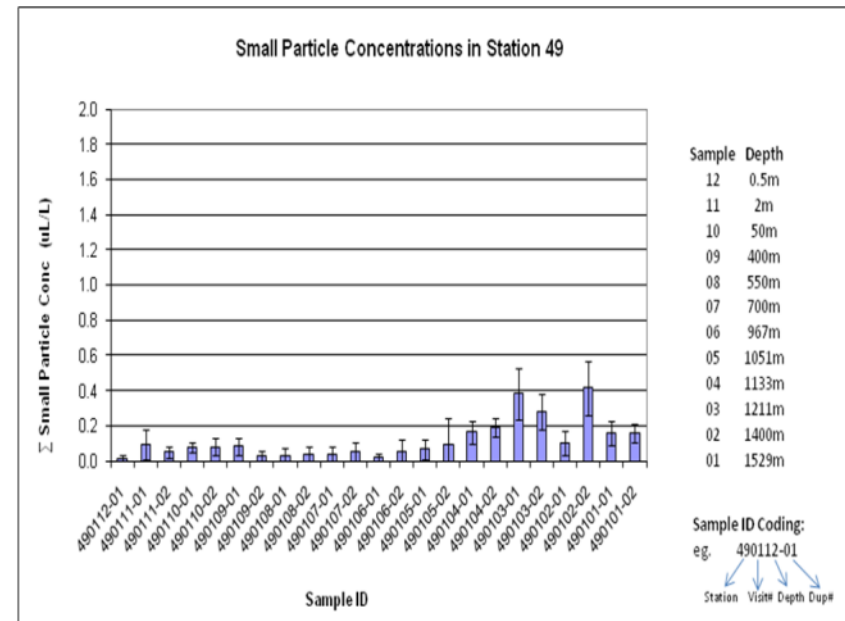
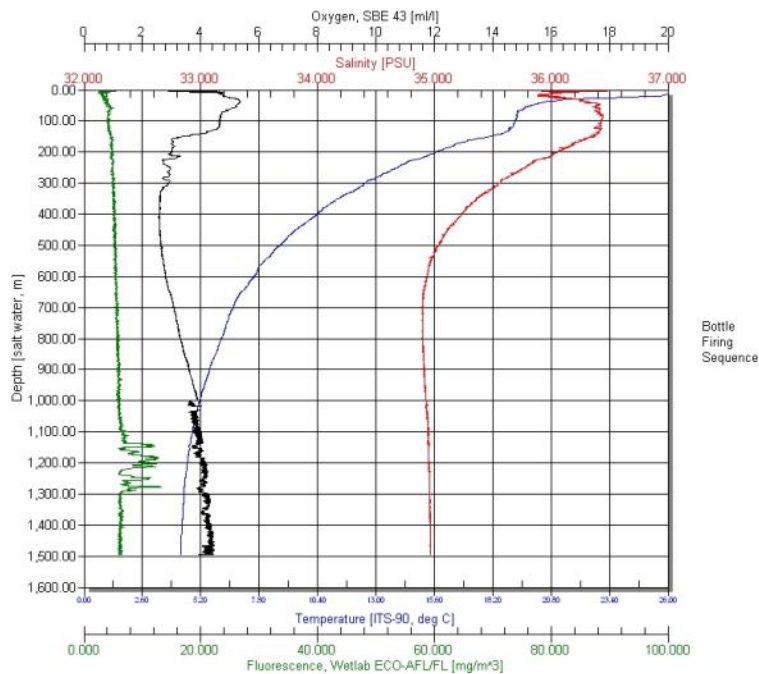


LISST



Indicators of Effects & Effectiveness

- Fluorometer & CTD Unit
 - Fluorescence
 - Oxygen
 - Salinity
 - Temperature
- LISST
 - Measures droplet size
 - Indicates whether oil is chemically dispersed



Water and Sediment Sampling

- Pre-Impact samples
 - Collected along the Gulf Coast prior to oil reaching the shoreline
- Ongoing samples
 - Collected to evaluate environmental threat



Water and Sediment Analysis

- Volatile organic chemicals
- Semi-Volatile organic chemicals
- Oil constituents
- Dispersant indicators
- Metals
- Toxicity



Miscellaneous Samples

- Source Oil
- Weathered Oil
- Oily Debris
- Mousse
- Tar Balls
- Corexit 9500
- Corexit 9527



Air Monitoring

- Continuous monitoring
 - Hydrogen sulfide
 - PM 10 & 2.5
 - Total VOCs
- Specialized air monitoring equipment
 - TAGA & Aspect
- Chemical-specific monitoring
 - Volatile organic chemicals (TO-15)
 - Semi-Volatile organic chemicals (TO-13)



